Docket No. 15162/03790

4/Drawing
P. Walker
RECEIVED 9-4-01
AUG 27 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TECHNOLOGY CENTER 2800

In re:

U.S. Application of:	Tsukasa YAGI, Masaaki NAKAI, Eiji YAMAKAWA, Kazuaki OKUMURA, Hiroshi NITTAYA, and Katsuhiko ASAI
For:	LIQUID CRYSTAL DISPLAY APPARATUS
U.S. Serial No.:	09/891,997
Filed:	June 26, 2001
Group Art Unit:	To be assigned
Examiner:	To be assigned

BOX NON-FEE AMENDMENT

Assistant Director
 for Patents
Washington, D.C. 20231

Dear Sir:

REQUEST FOR APPROVAL OF PROPOSED DRAWING CHANGES

Prints of Figs. 3a, 3b, 8a, 8b, 9a-9c, 14a-14c, 15a-15c, 16a-16c, 17a-17d, 18a, 18b, 20a-20c, 22a, 22b, 24a, 24b, 28a-28c, 29a-29c, 32a-32c and 34a-34c, are submitted herewith, which include the changes desired by Applicants marked in red.

Figs.3a and 3b - the legend "FIG. 3" has been deleted.

Figs. 8a-8b - the legend "FIG.8" has been deleted.

1

Figs. 9a-9c - the legend "FIG. 9" has been deleted.

Figs. 14a-14c - the legend "FIG. 14" has been deleted.

Figs. 15a-15c - the legend "FIG. 15" has been deleted.

Figs. 16a-16c - the legend "FIG. 16" has been deleted.

Figs. 17a-17d - the legend "FIG. 17" has been deleted.

Figs. 18a and 18b - the legend "FIG. 18" has been deleted.

Figs. 20a-20c - the legend "FIG. 20" has been deleted.

Figs. 22a and 22b - the legend "FIG. 22" has been deleted.

Figs. 24a and 24b - the legend "FIG. 24" has been deleted.

Figs. 28a-28c - the legend "FIG. 28" has been deleted.

Figs. 29a-29c - the legend "FIG. 29" has been deleted.

Figs. 32a-32c - the legend "FIG. 32" has been deleted.

Figs. 34a-34c - the legend "FIG. 34" has been deleted.

It is respectfully requested that the Examiner approve the proposed drawing changes.

Respectfully submitted,

By: _James W. Williams_____

James W. Williams
Registration No. 20,047
Attorney for Applicants

JWW/bmw
SIDLEY AUSTIN BROWN & WOOD
717 N. Harwood, Suite 3400
Dallas, Texas 75201
Direct: (214) 981-3328
Main: (214) 981-3300
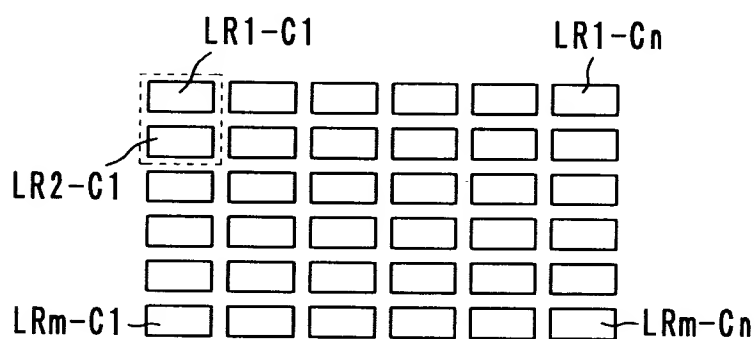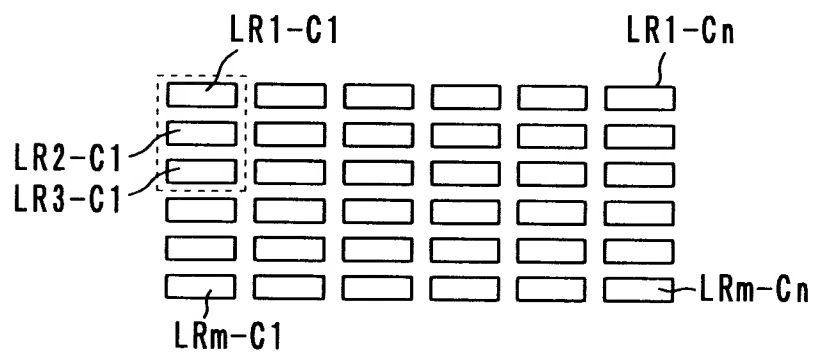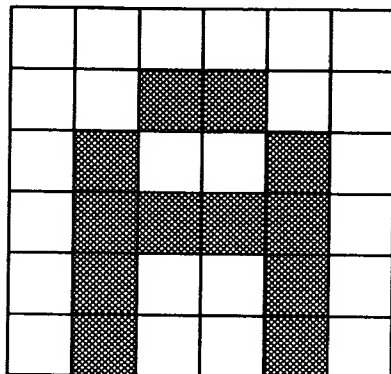Facsimile: (214) 981-3400
August 13, 2001

$F / G . 3$

F / G . 3 a

LR1-C1   LR1-Cn

LR2-C1

LRm-C1   LRm-Cn

F / G . 3 b

LR1-C1   LR1-Cn

LR2-C1

LR3-C1

LRm-Cn

LRm-C1

F I G . 8 a

F I G . 8 b

F I G . 8
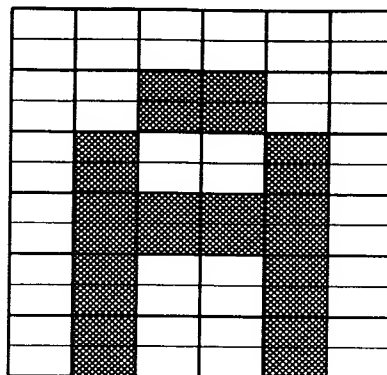
F I G . 9

F I G . 9 a
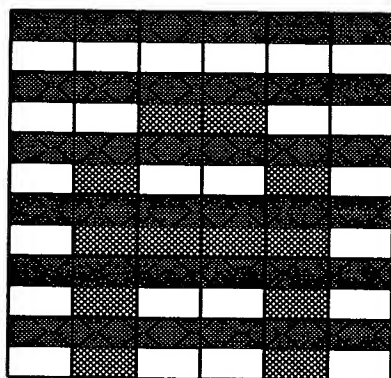
F I G . 9 b
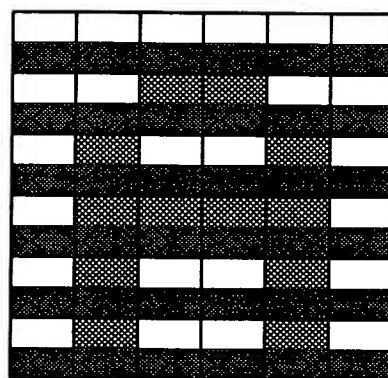
F I G . 9 c
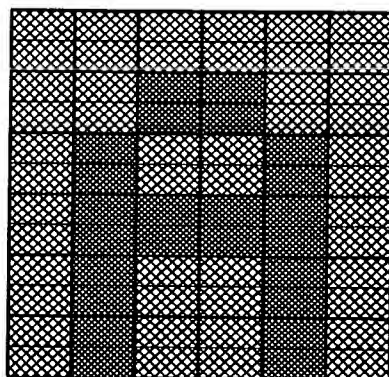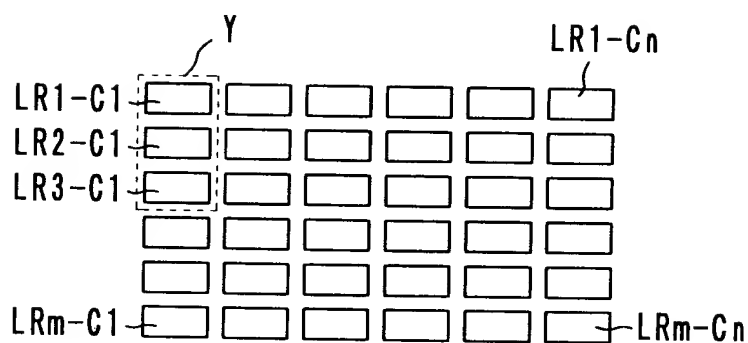
F I G . 1 4 c

F I G . 1 4 a

F I G . 1 4 b

F I G . 1 4 c

F I G . 1 5 a

A

F I G . 1 5 b

F I G . 1 5 c

Y1'
Y2'

Y1
Y2
Y3
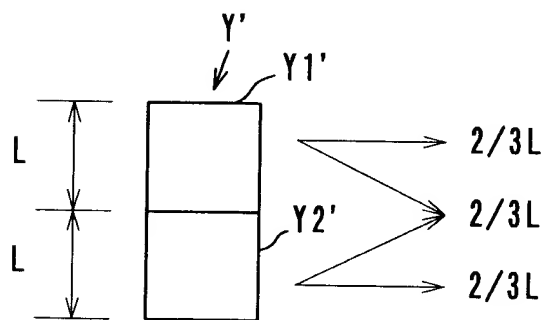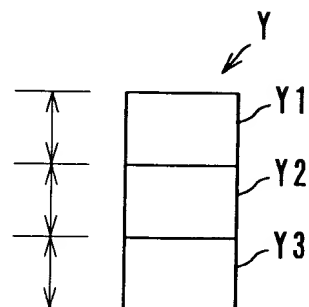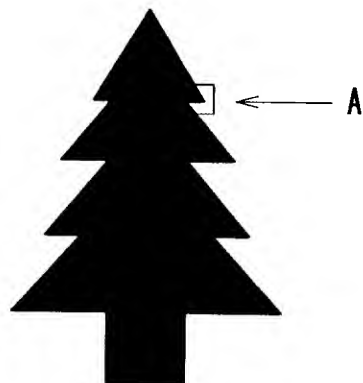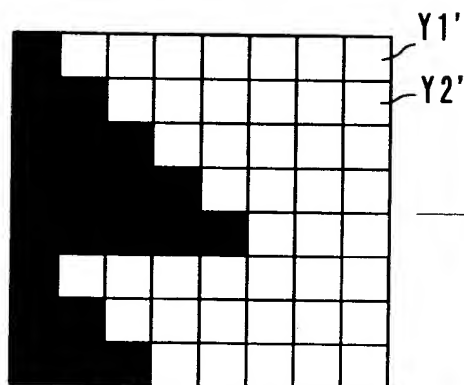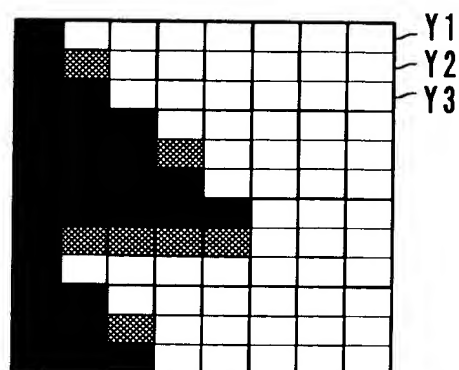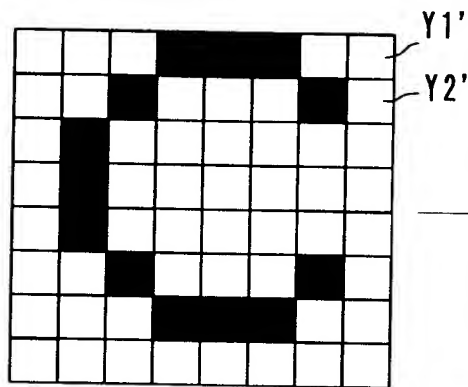
F I G . 1 6 a   F I G . 1 6 b
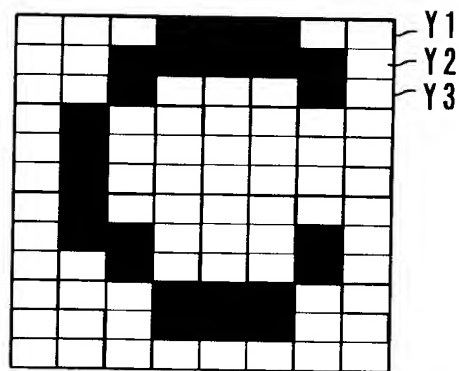
F I G . 1 6 c
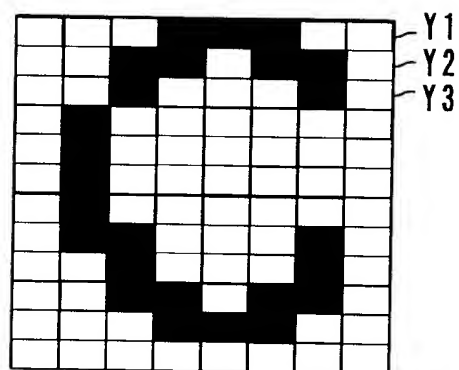
FIG. 17e

FIG. 17a

DATA INPUT FOR UPPER SCANNING LINE

140

R → | R1 | R2 | R3 | R4 | ------------- | RN |
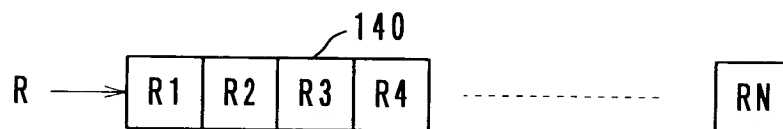
FIG. 17b

DATA INPUT FOR MIDDLE SCANNING LINE

141   140

T → | Q | → | S1 | S2 | S3 | S4 | ------------- | SN |
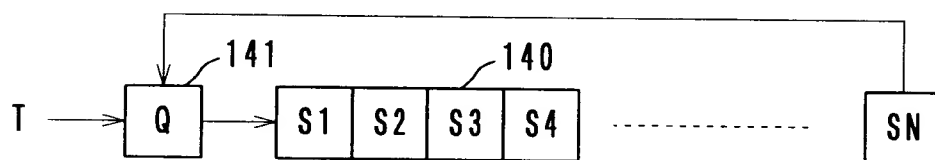
FIG. 17c

DATA INPUT FOR LOWER SCANNING LINE
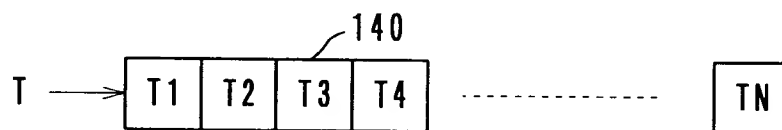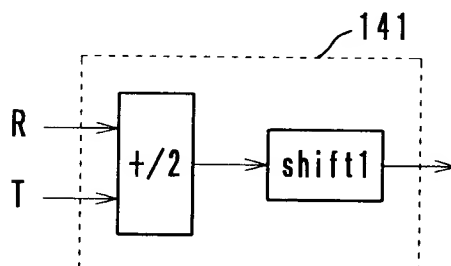
140

T → | T1 | T2 | T3 | T4 | ------------- | TN |

FIG. 17d

141

R → | +/2 | → | shift1 | →
T →

FIG. 18 c

FIG. 18 a

DIN

DIN2

+/2 ~141

SEL

0
1
142

S1 S2 S3 S4
140

SN

DOUT

132

132

FIG. 18 b

DIN DIN2 DOUT
132

0

DIN DOUT
132

1

DIN DOUT
132

1

F I G. 20°

F I G. 20a

Y1
Y2
Y3

F I G. 20b

Y1
Y2
Y3

F I G. 20c

Y1
Y2
Y3

FIG. 22c

FIG. 22 a

Y1
Y2
Y3

FIG. 22 b

Y1
Y2
Y3
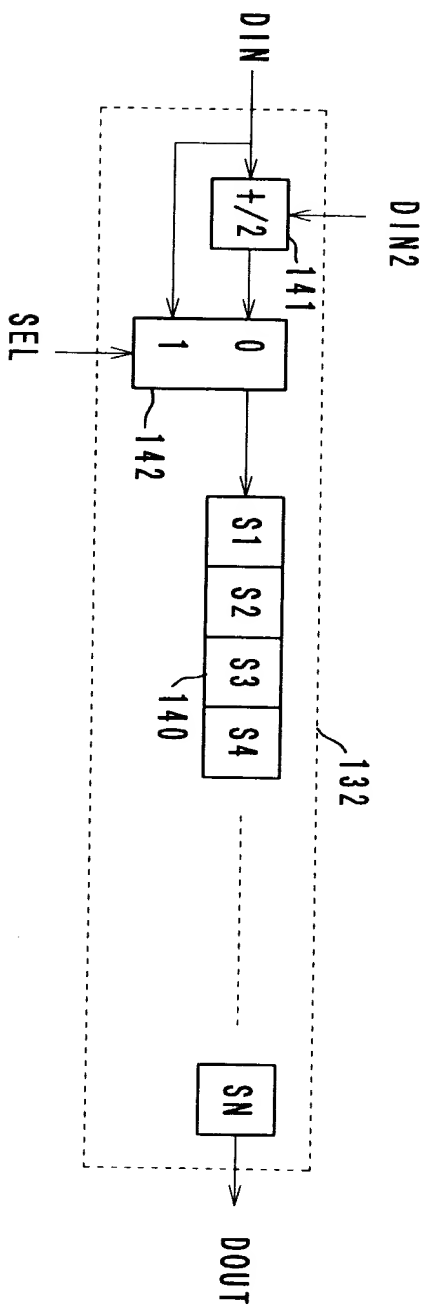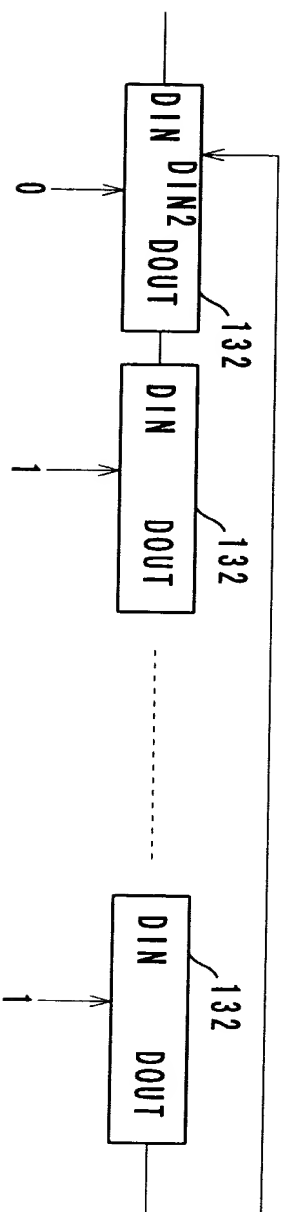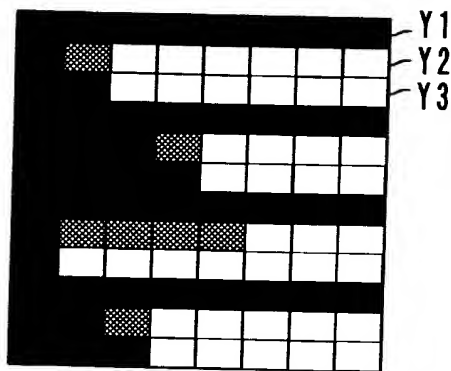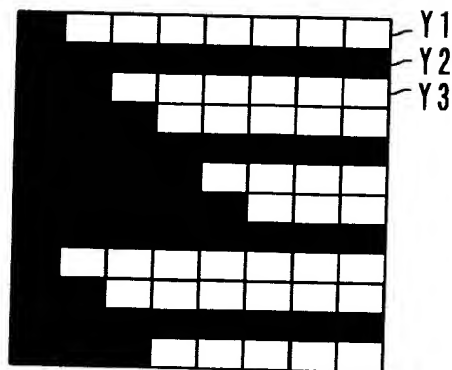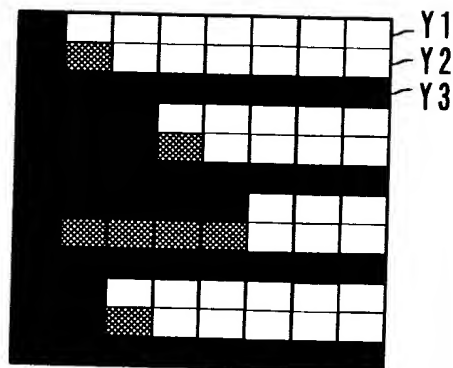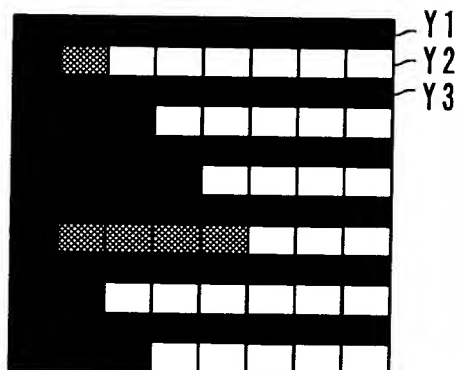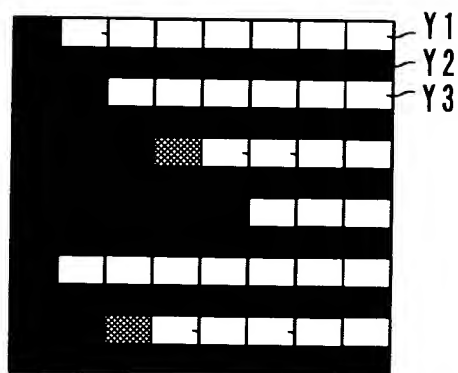
F I G. 24

F I G. 24 a

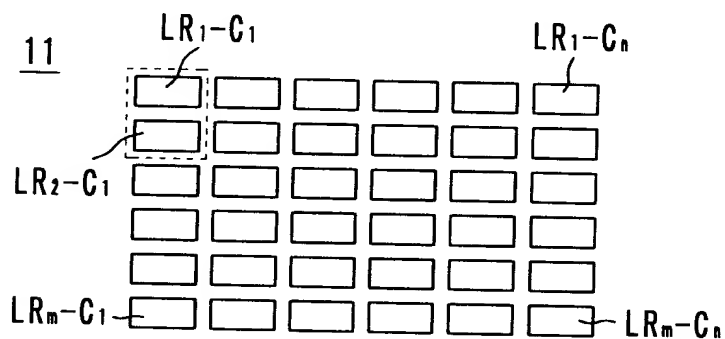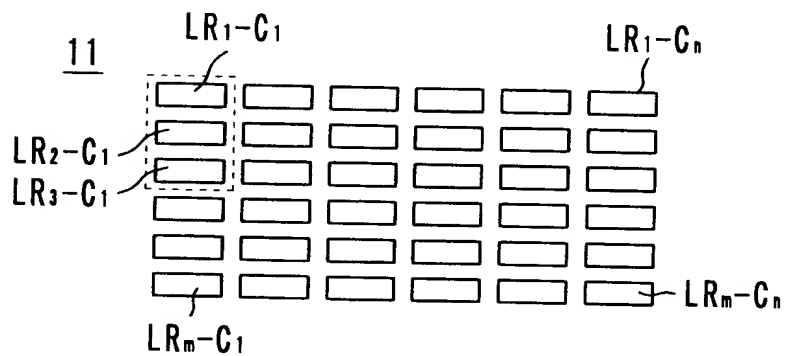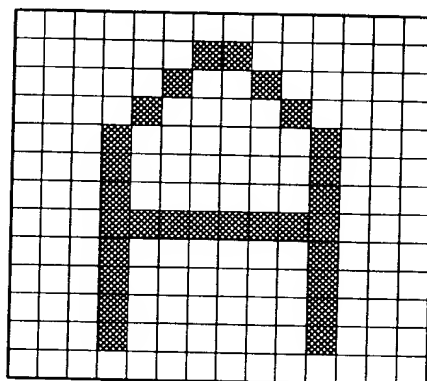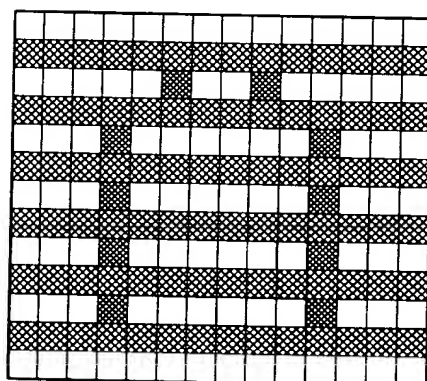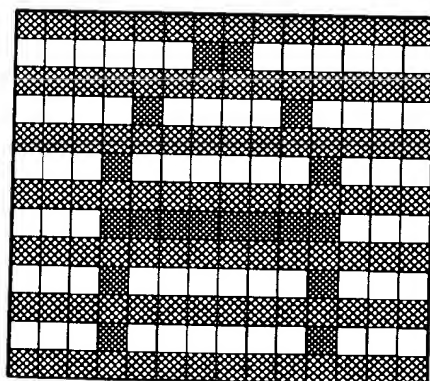

F I G. 24 b
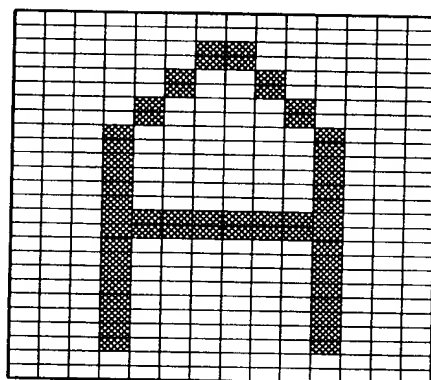
FIG. 28

FIG. 28 a

FIG. 28 b

FIG. 28 c

FIG. 29

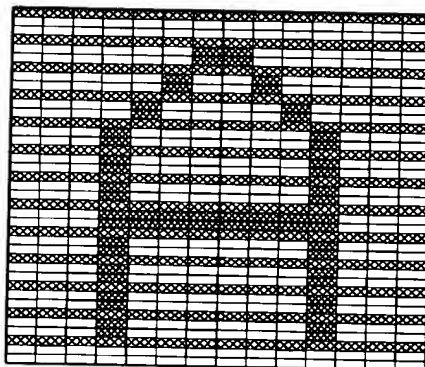FIG. 29a

FIG. 29b
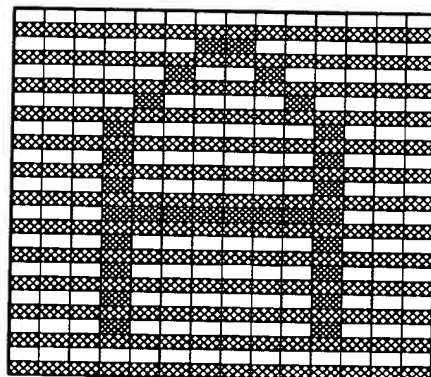
FIG. 29c
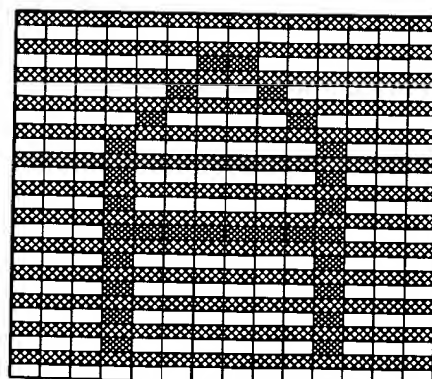
F I G . 3 2 e

F I G . 3 2 a

F I G . 3 2 b

F I G . 3 2 c

F I G . 3 4 a

F I G . 3 4

STILL PICTURE 1   STILL PICTURE 2   STILL PICTURE 3

STOP

MOTION PICTURE 1   STILL PICTURE 2   MOTION PICTURE 3

F I G . 3 4 b

STILL PICTURE 1   STILL PICTURE 1   STILL PICTURE 2

STOP

MOTION PICTURE 1   STILL PICTURE 1   STILL PICTURE 2   MOTION PICTURE 2

STOP

F I G . 3 4 c

STILL PICTURE 1   STILL PICTURE 1   STILL PICTURE 2

STOP

MOTION PICTURE 1   MOTION PICTURE 1   STILL PICTURE 2   MOTION PICTURE 2

STOP

STILL PICTURE 1 + STILL PICTURE a